Phillips®
REFRIGERATION

VALVES • VESSELS • SYSTEMS • CONTROLS

H. A. Phillips & Co.
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LP-080326
Effective August 3, 2026
Supercedes all previous List Prices

LIST PRICES
WITH SIZES & MODEL NUMBERS

All prices shown are U.S. dollars and are subject to change without notice.
All prices shown are F.O.B. factory.

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Please consult factory for pricing on the following products:
Oil Pots, Level Eye® Columns, ASME Pressure Vessels, Liquid Return Systems, Gas Pressure Recirculation Systems, Mechanical Pump Recirculation Systems, PUR Air Purgers and Anhydrator System Cleaners

LEVEL EYE®
(LIQUID LEVEL SIGHT GLASSES)
REF: BULLETIN VB-26E-01

Square-End Weld Housings

Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100-R	2"	**$214**	1100	2"	**$238**
1100-RN	2"	**$268**	1100-N	2"	**$292**
1100-RNX	2"	**$296**	1100-NX	2"	**$320**
1100A-R	3"	**$240**	1100A	3"	**$264**
1100A-RN	3"	**$294**	1100A-N	3"	**$318**
1100A-RNX	3"	**$322**	1100A-NX	3"	**$346**
1100L-R	4"	**$278**	1100L	4"	**$302**
1100L-RN	4"	**$332**	1100L-N	4"	**$356**
1100L-RNX	4"	**$360**	1100L-NX	4"	**$384**

Threaded Housings - 1-1/2" MPT

Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100AT-R	3"	**$276**	1100AT	3"	**$300**
1100AT-RN	3"	**$330**	1100AT-N	3"	**$354**
1100AT-RNX	3"	**$358**	1100AT-NX	3"	**$382**
1100T-R	4"	**$317**	1100T	4"	**$341**
1100T-RN	4"	**$371**	1100T-N	4"	**$395**
1100T-RNX	4"	**$399**	1100T-NX	4"	**$423**
1100V-R †	2"	**$500**	1100V †	2"	**$524**
1100V-RN †	2"	**$554**	1100V-N †	2"	**$578**
1100V-RNX †	2"	**$582**	1100V-NX †	2"	**$606**

† 2" MPT

Stainless Steel, Square-End Weld Housing

Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100S-R	2"	**$534**	1100S	2"	**$558**
1100S-RN	2"	**$588**	1100S-N	2"	**$612**
1100S-RNX	2"	**$616**	1100S-NX	2"	**$640**
1100LS-R	4"	**$656**	1100LS	4"	**$680**
1100LS-RN	4"	**$710**	1100LS-N	4"	**$734**
1100LS-RNX	4"	**$738**	1100LS-NX	4"	**$762**

Stainless Steel, Saddle Milled Weld Housing

1100SC-R	2"	**$550**	1100SC	2"	**$574**
1100SC-RN	2"	**$604**	1100SC-N	2"	**$628**
1100SC-RNX	2"	**$632**	1100SC-NX	2"	**$656**
1100LSC-R	4"	**$672**	1100LSC	4"	**$696**
1100LSC-RN	4"	**$726**	1100LSC-N	4"	**$750**
1100LSC-RNX	4"	**$754**	1100LSC-NX	4"	**$778**

Carbon Steel, Saddle-Milled Weld Housing

Part No. w/Reflex Lens	Length In.	List Price	Part No. w/Clear Lens	Length In.	List Price
1100C-R	2"	**$230**	1100C	2"	**$254**
1100C-RN	2"	**$284**	1100C-N	2"	**$308**
1100C-RNX	2"	**$312**	1100C-NX	2"	**$336**
1100LC-R	4"	**$294**	1100LC	4"	**$318**
1100LC-RN	4"	**$348**	1100LC-N	4"	**$372**
1100LC-RNX	4"	**$376**	1100LC-NX	4"	**$400**

NOTE: Specify refrigerant type when ordering Level Eyes to ensure gasket compatibility

PTFE gaskets are standard. Neoprene and Buna N available.

LEVEL EYE TAP
(For chasing worn/crossed threads)

LEVEL EYE TAP*	**$1,250**

* Also available for lease - contact factory

3" PROBE-READY COLUMN CAP
(Flat beveled cap, w/3/4" threaded hole)

Part No.	List Price
3-3061	**$110**

FLOAT SWITCHES
(SS Chamber)

Part No.	List Price
HAPSS	**$1,739**
HAPSS-1*	**$2,343**
REPLACEMENT SWITCH ASSY	
HAPSW†	**$920**
INTERNAL FLOAT SWITCH	
HAP85	**$2,368**

*Level Eye welded on chamber

†includes DIN connection

LEVEL EYE TORQUE TOOL
(Stainless Steel, fits 1/2" drive)

Part No.	List Price
LEVELEYETOOL	**$249**

INJECTORS
(LIQUID RECIRCULATING)
REF: BULLETIN VB-26E-01

Injector No.	List Price
2020SL	**$618**
2100SL	**$799**
2100SLD	**$1,414**
2075WCB	**$1,081**
2100WCB	**$1,127**
2100WCBA	**$1,127**
2125WA	**$1,101**
2150WA	**$1,396**
2200WA	**$2,631**
2250WA	**$3,777**

ORDERING INSTRUCTIONS:

1. Injector Number
2. Nozzle & throat size
3. Refrigerant
4. Inlet pressure & temperature
5. Suction temperature
6. Load (tons)
7. Application

GAUGES
1/4" MPT, LIQUID FILLED

AMMONIA, w/TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-020	**$143**
30"-300 psi, 2-1/2" Dia.	
88-021	**$143**
30"-150 psi, 4" Dia.	
88-024	**$214**
30"-300 psi, 4" Dia.	
88-025	**$214**
GENERIC, NO TEMP SCALE	
30"-150 psi, 2-1/2" Dia.	
88-026	**$194**
30"-400 psi, 2-1/2" Dia.	
88-027	**$194**

FILTERS/STRAINERS
REF: BULLETIN VB-26E-01

Filter Number	List Price	w/IPS flanges*
510-1/2" FPT angle	**$316**	-
510-3/4" FPT angle	**$316**	-
575-3/4" FPT angle	**$640**	-
575-1" FPT angle	**$640**	-
575-1-1/4" FPT angle	**$640**	-
S701JRP, 1/2" or 3/4"	**$459**	**$606**
S701, 1"	**$459**	**$645**
S701A, 2"	**$996**	**$1,264**
S701B, 3"	**$1,692**	**$2,030**

*ODC, SS flanges are also available. Consult factory for pricing

NOTES:

1. 510 and 575 filters are zinc plated.
2. The S701 filters mate with series 700 and 701 valves. Gasket, Nuts & Bolts to fit valves included.
3. Flanges: Socket Weld standard, threaded available except for S701B. Gaskets, Nuts & Bolts included.

FLANGES

REF: BULLETIN VB-26E-01

	Socket Weld		Threaded		Weld Neck		Union Kits*	
Size	Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
1/2" oval	4-MS or 4-FS	**$66**	4-MT or 4FT	**$78**	N/A	**-**	KF075	**$15**
3/4" oval	6-MS or 6-FS	**$66**	6-MT or 6FT	**$78**	N/A	**-**	KF075	**$15**
1" oval	8-MSO or 8-FSO	**$69**	8-MTO or 8-FTO	**$81**	N/A	**-**	KFO100	**$15**
1" sq.	8-MS or 8-FS	**$83**	8-MT or 8-FT	**$95**	N/A	**-**	KF125	**$20**
1-1/4" sq.	10-MS or 10-FS	**$83**	10-MT or 10FT	**$95**	10-MW or 10-FW	**$225**	KF125	**$20**
1-1/2" sq.	12-MS or 12-FS	**$119**	12-MT or 12-FT	**$143**	12-MW or 12-FW	**$296**	KF150	**$20**
2"sq.	16-MS or 16-FS	**$119**	16-MT or 16-FT	**$143**	16-MW or 16-FW	**$301**	KF200	**$30**
2-1/2" sq.	20-MS or 20-FS	**$137**	N/A	-	20-MW or 20-FW	**$342**	KF250	**$56**
3" sq.	24-MS or 24-FS	**$140**	N/A	-	24-MW or 24-FW	**$384**	KF300	**$58**
4" sq.	32-MS or 32-FS	**$161**	N/A	-	32-MW or 32-FW	**$479**	KF400	**$70**
5" rd.	40-MS or 40-FS	**$424**	N/A	-	40-MW or 40-FW	**$796**	KF500	**$114**
5" rd. York	40-MSY or 40-FSY	**$442**	N/A	-	40-MWY or 40-FWY	**$814**	KF500Y	**$114**
6" rd.	48-MS or 48-FS	**$473**	N/A	-	48-MW or 48-FW	**$920**	KF600	**$114**
6' rd. York	48-MSY or 48-FSY	**$491**	N/A	-	48-MWY or 48-FWY	**$938**	KF600Y	**$114**
8" rd.*	64-MS or 64-FS	**$2,000**	N/A	-	64-MW or 64-FW	**$2,245**	KF800	**$116**
10" rd.*	80-MS or 80-FS	**$1,300**	N/A	-	80-MW or 80-FW	**$1,669**	KF1000	**$134**
FLANGES - STAINLESS STEEL								
1/2" oval	4A-MS-SS or 4A-FS-SS	**$214**	N/A	-	N/A	-	KFS075	**$24**
3/4" oval	6A-MS-SS or 6A-FS-SS	**$214**	N/A	-	N/A	-	KFS075	**$24**
1" oval	8-MSO-SS or 8-FSO-SS	**$226**	N/A	-	N/A	-	KFOS100	**$24**
1-1/4" oval	722AMS-SS or 722AFS-SS	**$250**	N/A	-	N/A	-	KFOS125	**$32**
1" sq.	8-MS-SS or 8-FS-SS	**$240**	N/A	-	N/A	-	KFS125	**$56**
1-1/4" sq.	10-MS-SS or 10-FS-SS	**$240**	N/A	-	N/A	-	KFS125	**$56**
1-1/2" sq.	70MRS-SS or 70FRS-SS	**$240**	N/A	-	N/A	-	KFS200	**$60**
2" sq.	16-MS-SS or 16-FS-SS	**$280**	N/A	-	N/A	-	KFS200	**$60**
3" sq.	24-MS-SS or 24-FS-SS	**$350**	N/A	-	N/A	-	KFS300	**$94**

ORDERING INSTRUCTIONS:

1. Flange Connection Type
2. Flange Size
3. Male or Female

*There is limited number of 8" and 10" flanges
Remaining stock will not be replaced

UNION KIT INCLUDES:

Gasket + required # of nuts & bolts to make a flanged union set
Stainless kit includes stainless nuts & bolts

FLANGED UNIONS TONGUE & GROOVE

REF: BULLETIN VB-26E-01

	Socket Weld		Threaded		Weld Neck		Stainless - Socket Weld	
Size	Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
1/2" oval	U-4S	**$147**	U-4T	**$171**	N/A	**-**	U-4AS-SS	**$452**
3/4" oval	U-6S	**$147**	U-6T	**$171**	N/A	**-**	U-6AS-SS	**$452**
1" oval	U-8SO	**$153**	U-8TO	**$177**	N/A	**-**	U-8SO-SS	**$476**
1-1/4" oval	N/A	-	N/A	-	N/A	-	U-10SO-SS	**$532**
1" sq.	U-8S	**$186**	U-8T	**$210**	N/A	**-**	U-8S-SS	**$536**
1-1/4" sq.	U-10S	**$186**	U-10T	**$210**	U-10W	**$470**	U-10S-SS	**$536**
1-1/2" sq.	U-12S	**$258**	U-12T	**$306**	U-12W	**$612**	U-12S-SS	**$540**
2"sq.	U-16S	**$268**	U-16T	**$316**	U-16W	**$632**	U-16S-SS	**$620**
2-1/2" sq.	U-20S	**$330**	N/A	-	U-20W	**$740**	N/A	**-**
3" sq.	U-24S	**$338**	N/A	-	U-24W	**$826**	U-24S-SS	**$794**
4" sq.	U-32S	**$392**	N/A	-	U-32W	**$1,028**	N/A	-
5" rd.	U-40S	**$962**	N/A	-	U-40W	**$1,706**	N/A	-
5" rd. York	U-40SY	**$998**	N/A	-	U-40WY	**$1,742**	N/A	-
6" rd.	U-48S	**$1,060**	N/A	-	U-48W	**$1,954**	N/A	-
6" rd. York	U-48SY	**$1,096**	N/A	-	U-48WY	**$1,990**	N/A	-
8" rd.*	U-64S	**$4,116**	N/A	**-**	U-64W	**$4,606**	N/A	**-**
10" rd.*	U-80S	**$2,734**	N/A	**-**	U-80W	**$3,472**	N/A	**-**

ORDERING INSTRUCTIONS:

1. Union Connection Type
2. Union Size

FLANGED UNIONS INCLUDE:

(1) male flange, (1) female flange, (1) union kit

WATER TESTING APPARATUS

REF: BULLETIN ANW-SB17-01

Part No.	Description	List Price
ANH-MS	Moisture Sampling Flask, graduated 100ml capacity	**$230**
ANH-AS	Sampling stand kit, incl. (1) ANH-MS, stand, feed/vent assy, storage case	**$1,455**

SERIES 700H PILOT OPERATED VALVES WITH SERIES 275AP FIXED LEVEL PILOT FLOAT VALVES

REF: BULLETIN VB-26E-01

Valve Number	Flange Conns.. IPS-THD. or Socket, ODC (copper connectors)	Pilot Operated 700H Valve Zinc Plated (Standard) with Flanges	w/ Flanged Strainer	Valve Only	add for Weld Neck Flanges	Model 275AP and 275APF Fixed Level Pilot Float Valve Zinc Plated (Standard) with Cast Ch.	with Steel Ch.	Valve Only	add for Pilot Line Kit (See note)
FOR USE WITH AMMONIA (R717)									
700JRH	1/2", 3/4", 1"*	$1,473	$1,931	$1,326	$284	$1,209	$2,649	$775	$378
700XH	1", 1 1/4"	$1,611	$2,069	$1,425	$284	$1,209	$2,649	$775	$378
700AXH	1 1/2", 2"	$2,467	$3,463	$2,199	$364	$1,209	$2,649	$775	$378
700BXH	3" **	$3,807	$5,499	$3,469	$488	$1,209	$2,649	$775	$378
FOR USE WITH HALOCARBONS									
700JRHF	1/2", 3/4",1"* (IPS)	$1,473	$1,931	$1,326	$284	$1,385	$2,825	$951	$596
	1 1/8", 1 3/8" (ODC)	$1,807	$2,265	$1,326	N/A	$1,385	$2,825	$951	$596
700XHF	1", 1 1/4" (IPS)	$1,611	$2,069	$1,425	$284	$1,385	$2,825	$951	$596
	1 5/8" (ODC)	$2,023	$2,481	$1,425	N/A	$1,385	$2,825	$951	$596
700AXHF	1 1/2", 2" (IPS)	$2,467	$3,463	$2,199	$364	$1,385	$2,825	$951	$596
	2 1/8" (ODC)	$2,849	$3,845	$2,199	N/A	$1,385	$2,825	$951	$596
700BXHF	3" (IPS)**	$3,807	$5,499	$3,469	$488	$1,385	$2,825	$951	$596
	3 1/8" (ODC)	$4,277	$5,969	$3,469	N/A	$1,385	$2,825	$951	$596

*Available 1" SW or FPT flanges, add **$16 LIST**

** Socket weld or weld neck only

Stainless steel flanges available (SW only) - contact factory for pricing

NOTE: Pilot Line Kit for 1/4" pipe or 3/8" tube includes angle valve, gauge valve, pressure gauge and fittings

ORDERING INSTRUCTIONS:

For Pilot Valve:

1. Pilot Operated Valve Number
2. Orifice Size
3. Metering Plug
4. Spring
5. Flange Size, Type
6. Strainer (if required)
7. Serial Number, if replacement

For Pilot Float Valve:

1. Orifice Size
2. Chamber requirements

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

1. Refrigerant
2. Upstream and downstream pressures
3. Capacity
4. Degrees liquid subcooling

HIGH SIDE FLOAT VALVES SERIES 270A

REF: BULLETIN VB-26E-01

Valve Number	Valve w/ Chamber Cast	Steel	Valve Only (Zinc Plated)
FOR USE WITH AMMONIA (R717)			
270A	$1,167	$2,607	$733
270AX	$1,958	$3,398	$1,524
270AY	$2,645	$4,085	$2,211
270AZAZ	N/A	N/A	$1,072
FOR USE WITH HALOCARBONS			
270AF	$1,167	$2,607	$733
270AXF	$1,958	$3,398	$1,524
270AYF	$2,645	$4,085	$2,211

MOUNTING FLANGE (FOR SERIES 270A) 2-1/2" SOCKET WELD

Flange Number	List Price
298A	$185

HIGH SIDE CONTROL PACKAGE 700H & 275AP VALVES W/ ACCESSORIES

Control Package	Standard Items*	with Pressure Regulator and extra Service Valves
FOR USE WITH AMMONIA (R717)		
RC-050	$6,362	$7,818
RC-075	$6,425	$7,915
RC-100	$6,682	$8,172
RC-125	$6,945	$8,435
RC-150	$8,832	$10,322
RC-200	$9,186	$11,106
RC-250	$10,057	$12,989
RC-300	$12,798	$16,194
RC-400	$13,623	$18,047

* Includes (1) 275AP valve and steel chamber with Level Eye, pilot line kit, 700H valve, service valves and hand expansion bypass valve. See Bulletin WP-26E-01.

ORDERING INSTRUCTIONS:

Same as above for Pilot Valve and Pilot Float Valve.

THREE-WAY VALVES
SERIES 3000
REF: BULLETIN VB-26E-01

Valve Number	List Price (Zinc Plated)
3000N-3/4"	**$3,190**
3000AN-1-1/4"	**$4,428**

NOTE: Optional Pilot Light Coil, Add $63

ORDERING INSTRUCTIONS:

1. Voltage 2. Hertz

CHECK VALVES: IN-LINE DISC TYPE
SERIES 600
REF: BULLETIN VB-26E-01

Valve Number	Flange Conn's. I.P.S.; THD. or Socket	Valve w/ Flanges	add for Weld Neck Flanges	Valve Only
CAST BODY - TYPE FORMERLY MANUFACTURED BY **WOLF LINDE**				
600JR	1/2", 3/4", 1"¥	**$391**	**$284**	**$244**
600J	1¼" 1 1/2"	**$547**	**$354**	**$289**
600AJ	1 1/2", 2"	**$765**	**$364**	**$497**
600BJ*	3"	**$1,368**	**$488**	**$1,030**
600DJ*	4"	**$1,992**	**$636**	**$1,600**
ALL STEEL BODY				
600K*	1", 1¼"	**$625**	**$284**	**$439**
600AK*	1 1/2", 2"	**$841**	**$364**	**$573**

* Gravity drain - add suffix 'S' if Heavy Spring is required (e.g. 600AKS).

ORDERING INSTRUCTIONS:

1. Valve Number 2. Flange Size, Type
2. Flange Size and Type

¥Available 1" SW or FPT flanges, add **$16 LIST**

Stainless steel flanges available - SW only - contact factory for pricing

CHECK VALVES: IN-LINE PISTON TYPE, FLANGED
SERIES 700X
REF: BULLETIN VB-26E-01

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve W/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700JRX	1/2", 3/4", 1"*(IPS) 1⅛", 1⅜" (ODC)	**$720**	**$284**	**$1,054**	**$573**	S701JRP
700X	1", 1 1/4" (IPS) 1⅝" (ODC)	**$896**	**$284**	**$1,308**	**$710**	S701
700AX	1 1/2", 2" (IPS) 2⅛" (ODC)	**$1,378**	**$364**	**$1,760**	**$1,110**	S701A
700BX	3" (IPS) 3⅛" (ODC)	**$2,011**	**$488**	**$2,481**	**$1,673**	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

ORDERING INSTRUCTIONS:

1. Valve Number
2. Spring Differential (2, 5, 10, 20, 35, 50, 60, and 70 lbs.)
3. Flange Size and Type
4. Valve Serial Number, if Replacement

*Available 1" SW or FPT flanges, add **$16 LIST**

Stainless steel flanges available - SW only - contact factory for pricing

CHECK VALVES, GAS POWERED (PILOT OPERATED)
(GAS POWER TO CLOSE - SPRING TO OPEN)
SERIES 700S

REF: BULLETIN VB-26E-01

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve w/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700JRS	1/2", 3/4",1"*(IPS) 1⅛", 1⅜" (ODC)	**$826**	**$284**	**$1,160**	**$679**	S701JRP
700XS	1", 1 1/4" (IPS) 1⅜" (ODC)	**$990**	**$284**	**$1,402**	**$804**	S701
700AXS	1 1/2", 2" (IPS) 2⅛" (ODC)	**$1,495**	**$364**	**$1,877**	**$1,227**	S701A
700BXS	3" (IPS)** 3⅛" (ODC)	**$2,100**	**$488**	**$2,570**	**$1,762**	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

*Available 1" SW or FPT flanges, add **$16 LIST**

** 3" Flanges not available threaded

Stainless steel flanges available - SW only - contact factory for pricing

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size, Type

NOTE: No spring requirement necessary to order

CHECK VALVES: THREE WAY
(SPRING TO OPEN - GAS FLOW TO ACTUATE)
SERIES 700T

REF: BULLETIN CV-700-T-67

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve w/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700XT	1", 1 1/4" (IPS) 1⅝" (ODC)	**$1,102**	**$284**	**$1,514**	**$916**	S701
700AXT	1 1/2", 2" (IPS) 2⅛" (ODC)	**$1,881**	**$364**	**$2,263**	**$1,613**	S701A
700BXT	3" (IPS)** 3⅛" (ODC)	**$2,888**	**$488**	**$3,358**	**$2,550**	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

Stainless steel flanges available - SW only - contact factory for pricing

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size and Type

INTERRUPTING VALVES
(FOR PHILLIPS TYPE DC TRANSFER SYSTEMS)
SERIES 700T

REF: BULLETIN CV-700-T-67

Valve Number	Flange Connections: IPS Threaded or Socket; ODC Copper	Valve w/ IPS Flanges	add for Weld Neck Flanges	Valve w/ ODC Flanges	Valve Only (Zinc Plated as Standard)	Close-Coupled Strainer Option*
700AP	1 1/2", 2" (IPS) 2⅛" (ODC)	**$1,762**	**$364**	**$2,144**	**$1,494**	S701A
700BP	3" (IPS)** 3⅛" (ODC)	**$2,699**	**$488**	**$3,169**	**$2,361**	S701B

*Close-coupled strainers available. See page 2 for strainer pricing

Stainless steel flanges available - SW only - contact factory for pricing

** 3" Flanges not available threaded

ORDERING INSTRUCTIONS:

1. Valve Number
2. Flange Size and Type

LOW SIDE FLOAT VALVES
FIXED LEVEL - DIRECT FEED
(INTERNAL MOUNT)
SERIES 300H

REF: BULLETIN VB-26E-01

Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
300H	**$1,283**
300HD	**$1,313**
300HM	**$1,319**
300HMD	**$1,347**
300A	**$1,701**
300AM	**$1,759**

Valve Number	List Price (Zinc Plated)
FOR USE WITH HALOCARBONS	
300HF	**$1,338**
300HDF	**$1,368**
300HMF	**$1,374**
300HMDF	**$1,402**
300AF	**$1,769**
300AMF	**$1,827**

Note: Valves can be applied as pilots for Series 701 Pilot Operated Valves. **Add $1654 for 398A Steel Chamber**

LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(INTERNAL MOUNT)
SERIES 301H

REF: BULLETIN VB-265E-01

Valve Number	List Price (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
301H	**$2,368**
301A	**$2,398**
FOR USE WITH HALOCARBONS	
301HF	**$2,504**

LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(EXTERNAL MOUNT)
SERIES 301E

REF: BULLETIN VB-26E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	**$1,287**	**$2,941**
301G	**$1,540**	**$3,194**
301J	**$1,841**	**$3,495**
301K	**$1,901**	**$3,555**
FOR USE WITH HALOCARBONS		
301EF	**$1,342**	**$2,996**
301GF	**$1,595**	**$3,249**
301JF	**$1,896**	**$3,550**

MOUNTING FLANGES
(FOR SERIES 300 & 301)

Flange Number	List Price
399 (3" F.P.T.)	**$194**
300WF3 (3" S.W.)	**$231**

SPECIAL APPLICATION

Valve Number	Valve Only (Zinc Plated)
300WAXF	**$1,737**
300WCB	**$1,409**

OIL FLOAT VALVES

LOW SIDE OIL FEED VALVE
(FOR ALL REFRIGERANT OILS)
SERIES 275

REF: BULLETIN VB-26E-01

Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
275AF	**$1,156**	**$2,596**	**$722**
MOUNTING FLANGE 2-1/2" SOCKET WELD			
Flange Number		List Price	
298A		**$185**	

HIGH SIDE OIL DRAIN VALVE
(FOR ALL REFRIGERANT OILS)
SERIES 270A

REF: BULLETIN VB-26E-01

Valve Number	Valve w/Chamber		Valve Only (Zinc Plated)
	Cast	Steel	
270A	**$1,167**	**$2,607**	**$733**
MOUNTING FLANGE 2-1/2" SOCKET WELD			
Flange Number		List Price	
298A		**$185**	

Note: Standard orifice is 3/32" and will operate with a pressure drop of 250 PSI maximum.

ORDERING INSTRUCTIONS:

1. Valve Number
2. Orifice Size
3. With or without chamber
4. Mounting flanges #298A (if required)
5. Valve Serial Number, if replacement

LOW SIDE FLOAT VALVES (ADJUSTABLE LEVEL - REMOTE FEED) SERIES 101

REF: BULLETIN VB-26E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
101	**$2,316**	**$4,590**
101A	**$2,575**	**$5,517**
FOR USE WITH HALOCARBONS		
101F	**$2,365**	**$4,639**
101AF	**$2,672**	**$5,614**

+ See below for ordering instructions

LOW SIDE FLOAT VALVES SERIES 101 SPECIAL APPLICATIONS

REF: BULLETIN VB-26E-01

Valve Number	Valve Only (Zinc Plated)
FOR USE WITH AMMONIA (R717)	
101CPS	**$2,744**
FOR USE WITH HALOCARBONS	
101CPSF	**$2,780**

PILOT OPERATED VALVE WITH LOW SIDE ADJUSTABLE LEVEL PILOT FLOAT VALVES

REF: BULLETIN VB-26E-01

FOR USE WITH AMMONIA (R717)

701S Pilot Operated Valve								101 Pilot Float Valve		
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections IPS - Thd. or Socket, ODC (Copper Connectors)	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Valve and Orifice Size (in.)	with Chamber	Valve Only (Zinc Plated)
701JRS	$^{3}/_{8}$", $^{9}/_{16}$"	S701JR	$^{1}/_{2}$", $^{3}/_{4}$",1"*	**$1,537**	**$1,996**	**$1,390**	**$284**	101VP18 - $^{3}/_{32}$"	**$4,590**	**$2,316**
701S	$^{9}/_{16}$", $^{23}/_{32}$"	S701	1", $1^{1}/_{4}$"	**$1,676**	**$2,134**	**$1,490**	**$284**	101VP18 - $^{3}/_{32}$"	**$4,590**	**$2,316**
701AS	$^{7}/_{8}$", $^{23}/_{32}$"	S701A	$1^{1}/_{2}$", 2"	**$2,618**	**$3,613**	**$2,350**	**$364**	101VP26 - $^{1}/_{8}$"	**$5,517**	**$2,575**
701BS	$1^{1}/_{4}$"	S701B	3" (SW or WN)	**$4,876**	**$6,569**	**$4,538**	**$488**	101VP26 - $^{5}/_{32}$"	**$5,517**	**$2,575**
701BXS	$1^{9}/_{16}$"	S701B	4" (Weld Neck)	**$5,952**	**$7,644**	**$5,049**	**N/A**	101VP26 - $^{3}/_{16}$"	**$5,517**	**$2,575**

FOR USE WITH HALOCARBONS

701S Pilot Operated Valve								101 Pilot Float Valve		
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections IPS - THD. or Socket, ODC (Copper Connectors)	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Valve and Orifice Size (in.)	with Chamber	Valve Only (Zinc Plated)
701JRSF	$^{3}/_{8}$", $^{9}/_{16}$"	S701JR	$^{1}/_{2}$", $^{3}/_{4}$" (IPS), 1"*	**$1,537**	**$1,996**	**$1,390**	**$284**	101VPF18 - $^{3}/_{32}$"	**$4,639**	**$2,365**
			$1^{1}/_{8}$", $1^{3}/_{8}$" (ODC)	**$1,871**	**$2,330**	**$1,390**	**N/A**		**$4,639**	**$2,365**
701SF	9/16", 23/32"	S701	1", $1^{1}/_{4}$"	**$1,676**	**$2,134**	**$1,490**	**$284**	101VPF18 - $^{3}/_{32}$"	**$4,639**	**$2,365**
			$1^{5}/_{8}$" (ODC)	**$2,088**	**$2,546**	**$1,490**	**N/A**		**$4,639**	**$2,365**
701ASF	$^{7}/_{8}$", $^{23}/_{32}$"	S701A	$1^{1}/_{2}$", 2" (IPS)	**$2,618**	**$3,613**	**$2,350**	**$364**	101VPF26 - $^{1}/_{8}$"	**$5,614**	**$2,672**
			$2^{1}/_{8}$" (ODC)	**$3,000**	**$3,995**	**$2,350**	**N/A**		**$5,614**	**$2,672**
701BSF	$1^{1}/_{4}$"	S701B	3" (IPS) SW or WN	**$4,876**	**$6,569**	**$4,538**	**$488**	101VPF26 - $^{5}/_{32}$"	**$5,614**	**$2,672**
			$3^{1}/_{8}$" (ODC)	**$5,346**	**$7,039**	**$4,538**	**N/A**		**$5,614**	**$2,672**
701BXSF	$1^{9}/_{16}$"	S701B	4" (Weld Neck)	**$5,952**	**$7,644**	**$5,049**	**N/A**	101VPF26 - $^{3}/_{16}$"	**$5,614**	**$2,672**

NOTE: **Pilot Line Kit** available for 1/4" pipe **PLK-1/4, $378**; for 3/8" tubing **PLK-3/8, $596**

*Available w/ 1" SW or FPT flanges, add **$16 LIST**

Kits include angle valve, pressure gauge, gauge valve and fittings

Stainless steel flanges available (SW only) - contact factory for pricing

ORDERING INSTRUCTIONS:

For Pilot Operated Valve:

1. Pilot Operated Valve Number
2. Orifice Size
3. Metering Plug
4. Spring
5. Flange Size, Type
6. Strainer (if required)
7. Valve Serial No., if replacement

For Pilot Float Valve:

1. Float Valve Number
2. Orifice Size
3. Left or Right hand +
4. Chamber requirements
5. Valve Serial No., if replacement

For Pilot Kit: 1. Voltage 2. Hertz

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

1. Refrigerant
2. Upstream and downstream pressures
3. Capacity
4. Degrees liquid subcooling

+ Left Hand Flow (LHF): Arrow ← on Valve Body

+ Right Hand Flow (RHF): Arrow → on Valve Body

LOW SIDE FLOAT VALVES
FIXED LEVEL - REMOTE FEED
(EXTERNAL MOUNTING)
SERIES 301E

REF: BULLETIN VB-26E-01

Valve Number	Valve Only (Zinc Plated)	Valve w/ Chamber
FOR USE WITH AMMONIA (R717)		
301E	**$1,287**	**$2,941**
301G	**$1,540**	**$3,194**
301J	**$1,841**	**$3,495**
301K	**$1,901**	**$3,555**
FOR USE WITH HALOCARBONS		
301EF	**$1,342**	**$2,996**
301GF	**$1,595**	**$3,249**
301JF	**$1,896**	**$3,550**

PILOT OPERATED VALVE WITH
LOW SIDE FIXED LEVEL PILOT FLOAT VALVE

REF: BULLETIN VB-26E-01

FOR USE WITH AMMONIA (R717)

701S Pilot Operated Valve								301 Pilot Valve			
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections IPS - THD. or Socket, ODC (Copper Connectors)	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Pilot Float Valve	Pilot Valve Orifice	301 Pilot Valve with Chamber	301 Pilot Valve Valve Only (Zinc Plated)
701JRS	3/8", 9/16"	S701JR	1/2", 3/4", 1" *	**$1,537**	**$1,996**	**$1,390**	**$284**	301E	3/32", 1/8"	**$2,941**	**$1,287**
701S	9/16", 23/32"	S701	1", 1 1/4"	**$1,676**	**$2,134**	**$1,490**	**$284**	301E	3/32", 1/8"	**$2,941**	**$1,287**
701AS	7/8", 23/32"	S701A	1 1/2", 2"	**$2,618**	**$3,613**	**$2,350**	**$364**	301E	1/8"	**$2,941**	**$1,287**
701BS	1 1/4"	S701B	3" (SW or WN)	**$4,876**	**$6,569**	**$4,538**	**$488**	301G	5/32"	**$3,194**	**$1,540**
701BXS	1 9/16"	S701B	4" (Weld neck)	**$5,952**	**$7,644**	**$5,049**	**N/A**	301J	3/16"	**$3,495**	**$1,841**

FOR USE WITH HALOCARBONS

701S Pilot Operated Valve								301 Pilot Valve			
Pilot Operated Valve	Series 701 Port	Strainer	Available Connections IPS - THD. or Socket, ODC (Copper Connectors)	with Flanges	w/ Flanged Strainer	Valve Only (Zinc Plated)	add for W.N. Flgs.	Pilot Float Valve	Pilot Valve Orifice	301 Pilot Valve with Chamber	301 Pilot Valve Valve Only (Zinc Plated)
701JRSF	3/8", 9/16"	S701JR	1/2", 3/4", 1" (IPS) *	**$1,537**	**$1,996**	**$1,390**	**$284**	301EF	3/32", 1/8"	**$2,996**	**$1,342**
			1 1/8", 1 3/8" (ODC)	**$1,871**	**$2,330**	**$1,390**	**N/A**			**$2,996**	**$1,342**
701SF	9/16", 23/32"	S701	1", 1 1/4" (IPS)	**$1,676**	**$2,134**	**$1,490**	**$284**	301EF	3/32", 1/8"	**$2,996**	**$1,342**
			1 5/8" (ODC)	**$2,088**	**$2,546**	**$1,490**	**N/A**			**$2,996**	**$1,342**
701ASF	7/8", 23/32"	S701A	1 1/2", 2" (IPS)	**$2,618**	**$3,613**	**$2,350**	**$364**	301EF	1/8"	**$2,996**	**$1,342**
			2 1/8" (ODC)	**$3,000**	**$3,995**	**$2,350**	**N/A**			**$2,996**	**$1,342**
701BSF	1¼"	S701B	3" (IPS) SW or WN	**$4,876**	**$6,569**	**$4,538**	**$488**	301GF	5/32"	**$3,249**	**$1,595**
			3 1/8" (ODC)	**$5,346**	**$7,039**	**$4,538**	**N/A**			**$3,249**	**$1,595**
701BXSF	1 9/16"	S701B	4" (Weld Neck)	**$5,952**	**$7,644**	**$5,049**	**N/A**	301JF	3/16"	**$3,550**	**$1,896**

NOTE: **Pilot Line Kit** available for 1/4" pipe **PLK-1/4, $378**; for 3/8" tubing **PLK-3/8, $596**

*Available with 1" SW or FPT flanges, add **$16** LIST

Kits include angle valve, pressure gauge, gauge valve and fittings

Stainless steel flanges available (SW only) - contact factory for pricing

ORDERING INSTRUCTIONS:

For Pilot Operated Valve:

1. Pilot Operated Valve Number
2. Orifice Size
3. Metering Plug
4. Spring
5. Flange Size, Type
6. Strainer (if required)
7. Valve Serial No., if replacement

For Pilot Float Valve:

1. Float Valve Number
2. Orifice Size
3. Chamber requirement
4. Valve Serial No., if replacement

For Pilot Kit: 1. Voltage 2. Hertz

FOR FACTORY SELECTION ASSISTANCE, ADVISE:

1. Refrigerant
2. Upstream and downstream pressures
3. Capacity
4. Degrees liquid subcooling

PART KITS & CONTENTS REFERENCE	
K152K	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-2A Spring
K152K26	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K152KCP	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K152KCPF	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-60L Spring
K152KF18	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-30 Spring
K152KF26	152KCP Cartridge; 19 Gasket; 63 Gasket; 5-60L Spring
K152L	152L Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring (orifice up to 3/8"; 5-4 Spring with 13/32")
K152L18	152LCP Cartridge; 19 Gasket; 63 Gasket; 5-2A Spring
K152LCP	152LCP Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K152LCPF	152LCP Cartridge; 19 Gasket; 63 Gasket; 5-60L Spring
K152LF	152L Cartridge; 19 Gasket; 63 Gasket; 5-61 Spring
K152LF18	152L Cartridge; 19 Gasket; 63 Gasket; 5-30A Spring
K210	310 Cartridge; 308 pusher; 725 Gasket
K210A	310A Cartridge; 308A Pusher; 725 Gasket
K270A1	262 & 403S Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K270A2	262A & 263A Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K270AX	262A & 263A Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K270AY	262AY & 263AY Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K270AZ	262AZ & 263AZ Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411-S Pin; 11S Spacers
K275AP1	262 & 403S Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K275AP2	262A & 263A Seat & Needle; 73 Gasket; 224 Hex Jam Nut; 55 Washer; 411 Pin; 11S Spacers
K280	280 Cartridge; 19 Gasket
K280-6	280-6 Cartridge; 19 Gasket
K310	310 Cartridge; 308 Pusher; 19 Gasket; 365 Gasket
K310A	310A Cartridge; 308A Pusher; 365 Gasket
K355	355 Cartridge; 365 Gasket
K600	604 Valve Piece; 477-K Spring; 11-222 O-ring; 63 Gasket (2) [K600S indicates kit with strong spring 477-1]
K600A	604A Valve Piece; 605A4 Spring; 11-229 O-ring; 73 Gasket (2) [K600AS indicates kit with strong spring 605A1]
K600AJ	604AJ Valve Piece; 73 Gasket (2); 605AJ
K600BJ	604BJ Valve Piece; 326Y Gasket (2); 605BJ Spring
K600BJS	604BJ Valve Piece; 326Y Gasket (2); 605BJS Spring
K600DJ	604DJ Valve Piece; 326YA Gasket (2); 605DJ Spring
K600J	604J Valve Piece, 63W Gasket (2), 605AJ Spring
K600JR	604JR Valve Piece, 728 Gasket (2), 605JR
K700JR	703 Seat Disc; 710 Gasket; 506 Gasket
K700	703A Seat Disc; 710 Gasket; 725N Gasket (2)
K700A	700-3A Seat Disc; 710A Gasket; 73 Gasket (2)
K700B	700-3B Seat Disc; 710B Gasket; 326Y Gasket (2)
K700AX	700-3AX Seat Disc; 710A Gasket; 73 Gasket (2)
K700BX	700-3BX Seat Disc; 710B Gasket; 326Y Gasket (2)
K700X	700-3X Seat Disc; 710 Gasket; 725N Gasket (2)
K700AP	73 Gasket (2); 700-4AP Piston; 705A Spring; 710A Gasket
K700BP	326Y Gasket (2) 700-4BP Piston; 705BL Spring; 710B Gasket
K700XT	11-215 O-Ring; 600D2-2 Check Valve; 700-3X Seat Disc; 705-10L Spring; 710 Gasket; 725N Gasket(2); 5000-131 Retaining Ring
K700AXT	11-222 O-Ring; 73 Gasket(2); 600D3-2 Check Valve; 700-3AX Seat Disc; 705A10L Spring; 710A Gasket; 5000-175 Retaining Ring
K700BXT	326Y Gasket (2); 600D3XT Check Valve; 700-3BX Seat Disc; 705B15X Spring; 710B Gasket
K701JR	703JR Seat Disc; 710JR Gasket; 506 Gasket (2)
K701	703 Seat Disc; 710 Gasket; 725N Gasket (2)
K701A	703A Seat Disc; 710A Gasket; 73 Gasket (2)
K701B	703B Seat Disc; 710B Gasket; 326Y Gasket (2)
K1100	1101 Clear Glass; 1103 EPDM Gasket; 1104 Fiber Gasket
K1100R	1101R Reflex Glass; 1103 EPDM Gasket; 1104 Fiber Gasket
K3000	3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR & 3010N Gaskets; 705L Spring; 11-012(2) & 107 O-rings; 027F0666 Seal Kit; 775 Packing
K3000PS	3003JR & 3003 Seat Discs; 3012JRL & 3012L Push Rods; 3013 & 3013JR Nuts; 3010JR & 3010N Gasket; 705L Spring; 3004 & 3004JR Pistons; 3006 & 3006JR Seats; 11-012(2) & 107 O-rings; 027B1120 Solenoid; 775 Packing
K3000N-BNT	3002NR1 Bonnet; 3017NR1 Stem; 3333NR1 Plug; 3010N Gasket; 027B1120 Solenoid; 775 Packing
K3000A	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A & 3010AN Gaskets; 705AL Spring; 11-012(2) & 107 O-rings; 027F0666 Seal Kit; 775 Packing
K3000APS	3003A & 3003B Seat Discs; 3012A & 3012B Push Rods; 710A & 3010AN Gaskets; 705AL Spring; plus 3004A & 3004B Pistons; 3006A & 3006B Seats; 11-012(2) & 107 O-rings; 027B1120 Solenoid; 775 Packing
K3000AN-BNT	3002AN1 Bonnet; 3017NR1 Stem; 3333NR1 Plug; 3010AN Gasket; 027B1120 Solenoid; 775 Packing

VALVE PARTS KITS: MISCELLANEOUS

Kit Catalog No.	For Valve	Orifice Size (In.)	List Price
K152K	101, 101VP18	5/64 to 5/32; 3/16	$765
K152K26	101VP-26" chamber	1/8; 5/32; 3/16	$750
K152KF18	101F; 101VPF-18" chamber	5/64 to 5/32; 3/16	$750
K152KF26	101VPF-26" chamber	1/8; 5/32; 3/16	$788
K152KCP	101CP	5/64 to 5/32; 3/16	$750
K152KCPF	101CPF	5/64 to 5/32; 3/16	$788
K152L	101A	3/16; 1/4; 5/16; 3/8; 13/32	$1,049
K152L18	101A-18" chamber	1/4	$1,064
K152LF	101AF	1/4; 5/16; 3/8; 13/32	$1,051
K152LF18	101F-18" chamber	1/4	$1,049
K152LCP	101CP	1/4; 5/16; 3/8	$1,049
K152LCPF	101CPF	1/4; 5/16; 3/8	$1,087
K210	210	3/32 to 9/64	$567
K210A	210A	5/32; 3/16; 7/32	$626
K270A1	270A, 270AF, 275AF	1/16; 5/64; 3/32	$512
K270A2	270A, 270AF, 275AF	1/8; 3/16	$578
K270AX	270AX	13/64	$578
K270AY	270AY	3/8	$1,539
K270AZ	270AZ; 270AZA; 270AZAZ	0.234	$796
K275AP1	275AP; 275APF	1/16; 5/64; 3/32	$512
K275AP2	275AP; 275APF	1/8; 3/16	$578
K280	225; 225B; 250; 250CB; 250P; 250L; 250VPF; 251CP	5/64 to 5/32	$887
K280-6	250VP (R717 only)	7/64; 9/64; 5/32	$887
K310	300; 300H; 300HM; 300J; 300P; 300Y; 301E	5/64; 3/32; 7/64; 1/8; 9/64	$569
K310A	300A; 300AM; 300YA; 301G	5/32; 3/16; 7/32	$620
K310AX	300A; 300AM; 301G	9/32	$1,057
K355	301; 301H; 301J; 301K; 301D; 301A	3/16; 7/32; 9/32	$1,173

*Use the 5/64" Orifice Only in a 301E Valve

KITS: CHECK VALVES (DISC TYPE)

Kit Catalog No.	For Valve	Line Size (In.)	List Price
K600	600K	1, 1 1/4	$230
K600S	600K	1, 1 1/4	$230
K600A	600AK	1 1/2, 2	$329
K600AJ	600AJ	1 1/2, 2	$272
K600AS	600AK	1 1/2, 2	$329
K600BJ	600BJ	3	$637
K600BJS	600BJS	3	$653
K600DJ	600DJ	4	$653
K600J	600J	1¼ , 1½	$173
K600JR	600JR	½, ¾, 1	$124

KITS: CHECK VALVES (PISTON TYPE)

Kit Catalog No.	For Valve	Line Size (In.)	List Price
K700JR	700JR; 700JRS; 700JRX; 700JRH; 700JRXH	1/2; 3/4	$54
K700	700; 700S; 700H	1, 1 1/4	$83
K700A	700A; 700AS; 700AH	1 1/2, 2	$351
K700B	700B; 700BS; 700BH	3	$283
K700X	700X; 700XS; 700XH	1, 1 1/4	$70
K700AX	700AX; 700AXS; 700AXH	1 1/2, 2	$86
K700BX	700BX; 700BXS; 700BXH	3	$155

KITS: LOW SIDE PILOT OPERATED VALVES

Kit Catalog No.	For Valve	Line Size (in.)	List Price
K701JR	701JR; 701JRS	1/2; 3/4	$57
K701	701; 701S	1, 1 1/4	$68
K701A	701A; 701AS	1 1/2, 2	$84
K701B	701B; 701BS	3	$121

If a replacement spring is required for any of these valves, we must be advised of the Valve Serial Number.

KITS: 3-WAY SOLENOID OPERATED VALVES

Kit Catalog No.	For Valve	Line Size (in.)*	List Price
K3000	3000N	3/4	$324
K3000PS	3000N	3/4	$1,206
K3000N-BNT	3000N	3/4	$1,068
K3000A	3000AN	1 1/4	$477
K3000APS	3000AN	1 1/4	$1,761
K3000AN-BNT	3000AN	1 1/4	$1,727

*Actual valve IPS. Pipe lines run to the 3-way valves can be as indicated, or may be one or two pipe sizes larger.

KITS: 3-WAY CHECK VALVES

Kit Catalog No.	For Valve	Line Size (in.)	List Price
K700XT	700XT	1, 1 1/4	$777
K700AXT	700AXT	1 1/2, 2	$1,225
K700BXT	700BXT	3	$2,005

KITS: LEVEL EYE®

Kit Catalog No.	For Level Eye®	List Price
K1100	Clear Level Eye® w/Teflon Gasket	$150
K1100R	Reflex Level Eye® w/Teflon Gasket	$126
K1100-P	Clear Level Eye® w/Neoprene Gasket	$137
K1100R-P	Reflex Level Eye® w/Neoprene Gasket	$113

KITS: INTERRUPTING VALVES

Kit Catalog No.	For Valve	Line Size (in.)	List Price
K700AP	700AP	1 1/2, 2	$494
K700BP	700BP	3	$1,142

ORDERING INSTRUCTIONS:

1. Orifice size
2. Valve Serial Number
3. Load in Tons
4. Refrigerant

NOTES:

1. Ordering instruction data required for float controls only.
2. Failure to furnish at least one of the above requirements may mean a delay in filling the order, as our factory will have to seek the information before a shipment can be made.
3. If a replacement spring is required, the complete valve model number (ex. 700X5-DE) must be supplied.

REPLACEMENT PARTS								
PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
4	ADJUSTING NUT	$66	87S	LOCK NUT	$17	313A	FLOAT ROD	$123
5G	GASKET	$26	88	LOCK NUT	$8	313AM	FLOAT ROD	$111
5GY	GASKET	$26	90P	PIPE PLUG	$28	313CP	FLOAT ROD	$208
5-2A	SPRING	$28	107	O-RING	$8	313CPS	FLOAT ROD	$393
5-30A	SPRING	$13	108	O-RING	$8	313HM	FLOAT ROD	$107
5-60L	SPRING	$51	152KCP-	CARTRIDGE	$721	313R	FLOAT ROD	$50
5-61	SPRING	$15	152LCP-	CARTRIDGE	$1,020	314	CAM NEEDLE	$89
6	SPRING CONE	$45	204E	ADJUSTING NUT	$54	314A	CAM NEEDLE	$91
6G	GASKET	$29	211AY	SPRING PIN	$8	314E	CAM NEEDLE	$95
6GY	GASKET	$32	211X	SPRING PIN	$8	314J	CAM NEEDLE	$91
6T	SPRING CONE	$60	215CB	FLOAT BLOCK	$174	315	FLOAT BLOCK	$124
7	STEM	$158	220	FLOAT	$382	315ACB	FLOAT BLOCK	$626
7B	STEM	$81	220A	FLOAT	$194	315PA	FLOAT BLOCK	$194
8	GLAND	$40	224	LOCK NUT	$11	315PM	FLOAT BLOCK	$234
8B	GLAND	$40	228A	SCREW	$17	315R	FLOAT BLOCK	$170
8G	GASKET	$35	230A	FLOAT BLOCK	$66	315WA	FLOAT BLOCK	$172
9BF	BONNET	$1,106	230X	FLOAT BLOCK	$252	315WCB	FLOAT BLOCK	$104
9BP	BONNET	$1,106	230Z	FLOAT BLOCK	$85	316	SET SCREW	$13
9F	BONNET	$293	243CB	FLOAT ROD	$30	317J	NEEDLE	$70
10	LEVER	$192	261	SEALING WASHER	$11	318P	STOP	$53
10CP	LEVER	$285	262&403S-	SEAT BSHG. & NEEDLE	$365	319P	ADJUSTING PIECE	$17
10-11-1/2	LEVER	$200	262A&263A-	SEAT BSHG. & NEEDLE	$431	321M	FLOAT	$214
10-8-1/2-101	LEVER	$200	262AY&263AY-	SEAT BSHG. & NEEDLE	$1,392	321MF	FLOAT	$269
10-8-1/2-101A	LEVER	$200	262AZ&263AZ	SEAT BSHG. & NEEDLE	$614	321WCB	FLOAT	$566
11	LEVER PIN	$15	265AY	SPRING	$16	322	LOCK NUT	$6
11S	LEVER PIN	$23	265C	SPRING	$17	324	LOCK NUT	$6
11-012	O-RING	$5	265D-S	SPRING	$23	325	CAP SCREW	$8
11-210/11-215	O-RING	$13	265E	SPRING	$16	325WCB	CAP SCREW	$8
11-222	O-RING	$17	267	FLOAT	$462	326	GASKET	$15
11-225/11-229	O-RING	$17	267AZAZ	FLOAT	$840	326Y	GASKET	$15
12	PIPE PLUG	$11	267F	FLOAT	$723	326YA	GASKET	$23
14	PLUG	$103	267Y	FLOAT	$723	327P	STEM	$182
14CB	PLUG	$104	270M	ADJUSTING NUT	$40	328E	GLAND	$135
15	SPRING	$17	272AY	PUSHER	$223	331-15	FLOAT	$847
19	GASKET	$8	272M	PUSHER	$151	331-15F	FLOAT	$883
24A	BOLT	$12	272X	NEEDLE	$56	333	PIPE PLUG	$11
24B	BOLT	$14	273AY	GLAND	$309	334CB	CONNECTOR	$91
24C	BOLT	$17	273M	GLAND	$170	343	FLOAT ROD	$53
24D	BOLT	$16	273X	BOSS	$133	343A	FLOAT ROD	$28
24E	BOLT	$14	280-	CARTRIDGE	$879	343AZ	FLOAT ROD	$115
55	LOCK WASHER	$6	281M	SCREEN	$60	343CP	FLOAT ROD	$91
55A	LOCK WASHER	$6	299A	CHAMBER	$468	343D	FLOAT ROD	$57
56	COTTER PIN	$6	302D	DISC	$45	343H	FLOAT ROD	$91
57	NUT	$3	304	FOLLOWER	$8	343WA	FLOAT ROD	$174
58	NUT	$5	304A	FOLLOWER	$11	343WCB	FLOAT ROD	$21
59	NUT	$10	305A	SPRING	$6	355-	CARTRIDGE	$1,165
60	NUT	$7	307	BOSS	$190	356	SPRING	$11
62	BOLT	$5	307A	BOSS	$309	357	ADJUSTING SCREW	$21
63	GASKET	$8	307ACB	BOSS	$204	358	PUSHER	$127
63W	GASKET	$8	307B	BOSS	$317	359	LOCK NUT	$8
67-8"	FLOAT	$891	307E	BOSS	$325	363	PLUG	$123
67-16"	FLOAT	$951	307G	BOSS	$185	363-510CAP	STRAINER CAP	$139
67F-8"	FLOAT	$832	307J	BOSS	$185	363P	STRAINER CAP	$136
67F-16"	FLOAT	$911	308	PUSHER	$94	364	GASKET	$23
68-8"	FLOAT	$948	308A	PUSHER	$113	365	GASKET	$8
68F-8"	FLOAT	$1,005	308ACB	PUSHER	$471	369	ADJUSTING SCREW	$32
72	BOLT	$8	309	GASKET	$6	369A	STOP SCREW	$22
73	GASKET	$14	309A	GASKET	$6	370A	FLOAT	$729
73L	GASKET	$14	310-	CARTRIDGE	$459	370M	FLOAT	$445
74	GASKET	$12	310A-	CARTRIDGE	$499	370MF	FLOAT	$513
75K	O-RING	$15	310AX	CARTRIDGE	$578	377	STEM	$83
84	PIPE PLUG	$11	311A	SCREEN	$22	398A	CHAMBER	$1,654
87	LOCK NUT	$6	313	FLOAT ROD	$85	398B	CHAMBER	$1,654

REPLACEMENT PARTS								
PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
403S	NEEDLE	$53	700-3B	SEAT DISC	$238	705-130L	SPRING	$28
411	LEVER PIN	$24	700-3BX	SEAT DISC	$110	705A	SPRING	$59
411-S	LEVER PIN	$59	700-3X	SEAT DISC	$32	705A-2L	SPRING	$59
431	LINK	$13	700-4AP	PISTON	$396	705A-10L	SPRING	$59
431AY	LINK	$40	700-4AX	PISTON	$285	705A-20L	SPRING	$59
477K	SPRING	$17	700-4AXH	PISTON	$437	705A-30L	SPRING	$59
477-1	SPRING	$19	700-4AXS	PISTON	$333	705A-60L	SPRING	$59
506	GASKET	$8	700-4AXT	PISTON	$927	705A-110L	SPRING	$59
516P	SPRING GUIDE	$42	700-4BP	PISTON	$923	705A-165L	SPRING	$59
517	SCREEN	$202	700-4BX	PISTON	$409	705AL	SPRING	$28
517JRP	SCREEN	$180	700-4BXH	PISTON	$685	705B-3L	SPRING	$174
576	FLANGE	$175	700-4BXS	PISTON	$523	705B-10L	SPRING	$174
577	CAP SCREW	$8	700-4BXT	PISTON	$1,073	705B-15X	SPRING	$174
580	SCREEN	$382	700-4JRH	PISTON	$364	705B-30L	SPRING	$174
600D2	CHECK VALVE w/FLGS	$653	700-4JRSS	PISTON	$454	705B-60L	SPRING	$174
600D2-2	INNER CHECK VALVE	$500	700-4JRX	PISTON	$194	705B-100L	SPRING	$174
600D3	CHECK VALVE w/FLGS	$1,314	700-4X	PISTON	$194	705B-160L	SPRING	$174
600D3-2	INNER CHECK VALVE	$1,046	700-4XH	PISTON	$272	705BL	SPRING	$174
600D3XT	CHECK VALVE	$1,676	700-4XT	PISTON	$390	705L	SPRING	$16
601AJ	SNAP RING	$28	700-7	FLUSH PLUG	$53	706-9/16"	SEAT	$127
601BJ	SNAP RING	$34	700-7AX	FLUSH PLUG	$83	706-23/32"	SEAT	$127
601DJ	SNAP RING	$57	700-7AXH-	METERING PLUG	$227	706A-23/32"	SEAT	$154
601J	SNAP RING	$23	700-7AXS	FLUSH PLUG	$102	706A-7/8"	SEAT	$154
601JR	SNAP RING	$17	700-7AXT	FLUSH PLUG	$194	706B	SEAT	$223
602AJ	BACK PLATE	$63	700-7BX	FLUSH PLUG	$282	706JR-3/8"	SEAT	$127
602AK	GUIDE PIECE	$210	700-7BXH-	METERING PLUG	$361	706JR-9/16"	SEAT	$127
602BJ	BACK PLATE	$301	700-7BXS	FLUSH PLUG	$282	707-9/16-	METERING PLUG	$115
602DJ	BACK PLATE	$420	700-7H-	METERING PLUG	$227	707-23/32-	METERING PLUG	$115
602K	GUIDE PIECE	$180	700-7JR	FLUSH PLUG	$47	707A-23/32-	METERING PLUG	$144
603AJ	TEFLON RING	$66	700-7JRH-	METERING PLUG	$174	707A-7/8-	METERING PLUG	$144
603BJ	TEFLON RING	$91	700-7JRS	FLUSH PLUG	$148	707B-	METERING PLUG	$333
603DJ	TEFLON RING	$138	700-7S	FLUSH PLUG	$153	707JR-3/8-	METERING PLUG	$138
603J	TEFLON RING	$53	700-7T	FLUSH PLUG	$129	707JR-9/16-	METERING PLUG	$138
603JR	TEFLON RING	$30	702APN	BONNET	$1,319	708A	SPRING CONE	$79
604	VALVE PIECE	$180	702AS	BONNET	$350	708AT	SPRING CONE	$87
604A	VALVE PIECE	$261	702BPN	BONNET	$2,179	708B	SPRING CONE	$78
604AJ	VALVE PIECE	$214	702BS	BONNET	$642	708BT	SPRING CONE	$261
604BJ	VALVE PIECE	$556	702BT	BONNET	$573	708BXT	SPRING CONE	$282
604DJ	VALVE PIECE	$904	702BXS	BONNET	$679	710	GASKET	$8
604J	VALVE PIECE	$127	702JRS	BONNET	$194	710A	GASKET	$11
604JR	VALVE PIECE	$87	702S	BONNET	$194	710B	GASKET	$15
605A1	SPRING	$25	702T	BONNET	$281	710JR	GASKET	$11
605A4	SPRING	$23	703	SEAT DISC	$30	711	STEM	$123
605AJ	SPRING	$30	703A	SEAT DISC	$45	711A	STEM	$131
605BJ	SPRING	$51	703B	SEAT DISC	$76	711AXT	STEM	$194
605BJS	SPRING	$67	703JR	SEAT DISC	$30	711B	STEM	$210
605DJ	SPRING	$66	703BXS	SEAT DISC	$261	711BT	STEM	$238
605DJS	SPRING	$127	704	PISTON	$333	711X	STEM	$91
605JR	SPRING	$25	704A	PISTON	$436	711XS	STEM	$103
608AJ	BACK PLATE RING	$62	704B	PISTON	$959	711XT	STEM	$186
608BJ	BACK PLATE RING	$74	704JR	PISTON	$305	714	SEAL CAP	$138
608DJ	BACK PLATE RING	$115	705-1L	SPRING	$28	714N	SEAL CAP	$25
608J	BACK PLATE RING	$51	705-5L	SPRING	$28	714B	SEAL CAP	$253
608JR	BACK PLATE RING	$32	705-10L	SPRING	$28	718	CAP SCREW	$6
626	GASKET	$6	705-20L	SPRING	$28	720	GASKET	$11
700-2	BONNET	$154	705-35L	SPRING	$28	720B	GASKET	$11
700-2A	BONNET	$246	705-35R	SPRING	$28	721A	BOLT	$6
700-2AP	BONNET	$727	705-45L	USE 705-50L	$28	721B	BOLT	$6
700-2AT	BONNET	$350	705-50L	SPRING	$28	721L	BOLT	$8
700-2B	BONNET	$562	705-60L	SPRING	$28	723	GASKET	$9
700-2BP	BONNET	$410	705-60R	SPRING	$28	725N	GASKET	$15
700-3A	SEAT DISC	$312	705-70L	SPRING	$28	726	BOLT	$14
700-3AX	SEAT DISC	$47	705-90L	SPRING	$28	726B	BOLT	$12

REPLACEMENT PARTS

PART NO.	DESCRIPTION	LIST PRICE
726C	BOLT	$12
726D	BOLT	$18
726E	BOLT	$24
728	GASKET	$6
775	PACKING RING	$15
776	RETAINER	$15
777BN	PACKING RING	$21
1100H	HOUSING	$162
1100AH	HOUSING	$188
1100LH	HOUSING	$225
1100CH	HOUSING	$177
1100LCH	HOUSING	$241
1100ATH	HOUSING	$224
1100TH	HOUSING	$263
1100VH	HOUSING	$447
1100SH	HOUSING	$323
1100LSH	HOUSING	$446
1100SCH	HOUSING	$339
1100LSCH	HOUSING	$462
1100LSTH	HOUSING	$485
1101	LENS - CLEAR	$118
1101B	BLANKING LENS	$64
1101R	LENS - REFLEX	$94
1102SH	RETAINER SS HEX	$162
1103	GASKET - TEFLON	$25
1103B	GASKET - BUNA N	$12
1103N	GASKET - NEOPRENE	$12
1104	GASKET	$7
1105	FROST SHIELD	$80
1105L	FROST SHIELD	$103
1105/1106	FRST SHLD/O-RING	$85
1105L/1106	FRST SHLD/O-RING	$109
1106	O-RING	$7
1358	GASKET	$15
1458	GASKET	$30
1459	BOLT	$8
2026SL-	NOZZLE	$378
2027SL-	THROAT	$225
2028SL	NUT	$79
2029	GASKET	$6
2030SL	NUT	$81
2046SL-	NOZZLE	$248
2076W	FRONT PIECE	$30
2077W-	THROAT	$156
2101W	FRONT PIECE	$105
2106SL-	NOZZLE	$370
2107SL-	THROAT	$169
2107W-	THROAT	$378
2108SL	NUT	$129
2110SL	CONNECTOR	$86
2111	GASKET	$6
2125WA-3	INJ. WELDMENT	$505
2126-	NOZZLE	$541
2127WA-	THROAT	$312
2130	NUT	$72
2131B	CONNECTOR	$42
2157WA-	THROAT	$252
2222-	NOZZLE	$685
2223W-	THROAT	$1,035
2256WA-	NOZZLE	$646
3002A	BONNET	$284
3002AN1	BONNET	$1,299
3002JRN	BONNET	$166
3002NR1	BONNET	$639
3003	SEAT DISC	$40
3003A	SEAT DISC	$53
3003B	SEAT DISC	$76
3003JR	SEAT DISC	$34
3004	PISTON	$187
3004A	PISTON	$312
3004B	PISTON	$452
3004JR	PISTON	$305
3006	SEAT	$78
3006A	SEAT	$127
3006B	SEAT	$157
3006JR	SEAT	$76
3010	GASKET	$11
3010AN	GASKET	$10
3010JR	GASKET	$11
3010N	GASKET	$11
3012A	PUSH ROD	$112
3012B	PUSH ROD	$127
3012JRL	PUSH ROD	$70
3012L	PUSH ROD	$70
3013	NUT	$8
3013JR	NUT	$8
3014	TUBE ASSY	$146
3014A	TUBE ASS'Y	$146
3014TF	TUBE FITTING	$64
3017NR1	STEM	$77
3333NR1	PLUG	$63
5000-131	SNAP RING	$13
5000-175	SNAP RING	$17
5108-137	SNAP RING	$13
5108-177	SNAP RING	$19
B-10985	CHAMBER	$1,961
RHR120	DELAY RLY 120V	$560
RHR240	DELAY RLY 240V	$560
TBASE	OCTAL BASE	$179
THR120	TIMER ASSY 120V	$738
THR240	TIMER ASSY 240V	$738
U4-1	NUT	$89
U4-1S	NUT	$89
U4-3S	RETAINER	$68
U4-4	GASKET	$6
U6-1S	NUT	$115
U6-4	GASKET	$8

PART NO.	DESCRIPTION	LIST PRICE

RETURN MATERIAL AUTHORIZATION POLICY

FOR PRODUCTS MANUFACTURED BY H. A. PHILLIPS & CO.:

H. A. Phillips & Co. will review any customer's request to return product(s) for credit or repair. Customers must obtain a Return Material Authorization prior to returning any product(s). NOTE: RMA numbers are only valid for 6 months following their date of issue.

The following steps must be followed for all returns and repairs:

1. Customer contacts H. A. Phillips & Co. for a Return Material Authorization (RMA) number.
2. H. A. Phillips & Co. issues the customer and RMA form and a copy of the Return Material and Repair Policy.
3. H. A. Phillips & Co. indicates "Repair & Return" or "Return for Credit" on the RMA form.
4. Customer includes the RMA form with the product(s) when packaged for shipment.
5. Customer writes the RMA number on the outside of the package.
6. The product(s) must be packaged properly to prevent any damage during shipment. The original box must be used for all returns except valid warranty claims.
7. Customer ships the product(s) prepaid UPS to the factory address. H. A. Phillips & Co. WILL NOT accept any C.O.D. parcels.
8. Payment for product is not contingent upon processing of RMA. Any applicable credit(s) will be available only upon issuance by H. A. Phillips. Please refer to the published Terms & Conditions regarding payment terms.

Returns:

When a credit is requested, H. A. Phillips & Co. will inspect the returned condition of the product(s) prior to making a credit decision. A minimum restocking charge calculated as 15% of the purchase price or $15.00, whichever is greater, will apply. If the product(s) returned is (are) a non-stocked assembly that must be disassembled before restocking the components, a restocking charge of 25% of the purchase price or $25.00, whichever is greater, will apply. If the returned product(s) is (are) defective in material or workmanship according to the warranty provisions of H. A. Phillips & Co.'s Terms & Conditions of Sale, there will be no restocking charge. An additional charge of 10% of the purchase price or $10.00, whichever is greater, will apply if the product is returned without: 1) the original packaging (for non-warranty returns only), 2) the RMA paperwork, or 3) if the RMA is more than 60 days old on the date that the product was shipped to the factory by the customer.

Any damage due to improper packing of the returned product(s) by the customer will be charged to the customer or the product(s) will be returned to the customer with no credit given and return freight billed to the customer.

Repairs:

H. A. Phillips & Co. will repair valves with a Valve Serial Number that indicates the valve was manufactured less than ten (10) years prior to the request for an RMA. A customer should check with the factory to verify the age. Repair parts for older valves are usually available. H. A. Phillips & Co. will repair a valve for a fee of 75% of the current total cost for a new valve, contingent on the re-use of the valve body and float ball (if applicable). The repaired or replaced valve assumes the remaining term of the applicable warranty or 90 days; whichever is longer.

FOR PRODUCTS SOLD OR DISTRIBUTED BY H. A. PHILLIPS & CO. BUT MANUFACTURED BY OTHERS:

Returns:

When a credit is requested for product(s) not manufactured by H. A. Phillips & Co., any restocking fee(s) is (are) subject to the published Terms & Conditions of the original manufacturer. The restock fee(s) and other costs related to the credit request will be passed to the customer.

Seller warrants that its products ("Product(s)") will meet the specifications set forth in its catalog from time to time, unless the Buyer is notified otherwise prior to delivery. Seller will, without charge, repair or provide a replacement for any of the Products which prove to be defective in materials or workmanship within one (1) year from the date of shipment ("Warranty Period").

If, within the Warranty Period, Buyer discovers a defect in materials or workmanship, which interferes with the operation of any Product, Buyer must promptly notify Seller, in writing, of such defect. Seller's sole obligation to Buyer under this Warranty is to repair and correct any defect in material or workmanship, or provide a replacement Product to Buyer. Seller's decision with respect to the applicability of this Warranty to any defect shall be final and conclusive. Seller reserves the right to require Buyer, at Buyer's sole cost and expense, to return any defective Product, including any alterations made thereto, F.O.B. Seller's factory in Illinois.

Seller does not warrant against abrasion, corrosion or erosion. Seller shall not be liable to Buyer or to any other person for work done or repairs made, to remedy any defect, by any person who is not an authorized representative of Seller, unless Seller's written consent is first obtained by Buyer. This Warranty does not apply to, and is rendered null and void by, any Product which, after leaving Seller's manufacturing plant: (a) is repaired or altered without Seller's prior written approval; (b) is the subject of improper storage, installation or operation; (c) is the subject of intentional or negligent misuse, misapplication, neglect or accident; or (d) is not used, repaired or altered in accordance with Seller's written instructions.

This Warranty does not apply to any products which are purchased and resold by Seller and which bear the original manufacturer's name or nameplate on the product. Any such products shall be warranted only to the extent of the express warranty, if any, provided by the manufacturer of such products or parts as published in their Terms and Conditions.

Seller expressly reserves the right to declare this Warranty null and void upon Buyer's failure to make full and timely payments with respect to any Products purchased by Buyer from Seller, in which event all of Seller's obligations, and Buyer's rights, under this Warranty, shall immediately terminate.

SELLER DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE. SELLER SHALL NOT BE LIABLE TO BUYER OR ANY OTHER PARTY UNDER THIS WARRANTY FOR DIRECT, SPECIAL, CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES OF ANY KIND.

TERMS AND CONDITIONS OF SALE

1. Acceptance of Orders. All sales made by H.A. Phillips & Co. ("Seller") of its products ("Products") are contingent upon the Buyer's acceptance of these Terms and Conditions of Sale ("Terms"). All orders placed by Buyer are subject to acceptance by an authorized representative of Seller at Seller's principal offices in Illinois. Any terms and conditions contained in Buyer's purchase order which are inconsistent with, or in addition to, these Terms, shall not be binding upon Seller unless, and until, Seller agrees to any such terms and conditions, in writing, signed by an authorized representative of Seller. These Terms cannot be modified or waived except by written agreement executed by an authorized representative of Seller at Seller's principal offices in Illinois.

2. Prices. Prices stated in Seller's price list are subject to change without notice. Prices listed in Seller's quotations or acknowledgements, or which are quoted verbally (other than welded products for which only a written quotation is valid) by Seller, shall remain firm for thirty (30) days unless Seller notifies Buyer to the contrary.

3. Payment Terms. Provided that Buyer has established a credit account with Seller, then payment terms for all Products for US Customers with a selling price less than $50,000.00 and Canadian Customers with a selling price less than $25,000.00, are net cash (U.S. Dollars) thirty (30) days from date of invoice (date of shipment). For all Products for US Customers with a selling price greater than $50,000.00, 10% of the selling price is due prior to the time that the order is shipped, with the remaining 90% due net cash (U.S. Dollars) thirty (30) days from date of invoice (date of shipment). For all Products for Canadian Customers with a selling price greater than $25,000.00, 25% of the selling price is due prior to the time that the order is shipped, with the remaining 75% due net cash (U.S. Dollars) thirty (30) days from the date of invoice (date of shipment). If Buyer has not established a credit account with Seller, then payment terms for all Products are net cash (U.S. Dollars) prior to shipment. Certain credit cards may be accepted for payment, but only prior to the time that an order is shipped. Credit cards will not be accepted after the time that an order is shipped. These payment terms are independent of, and are not contingent upon, the time and manner in which Buyer receives payment from any of its customers. All Sales Orders are quoted by Seller to Customers as cash (U.S. Dollars) sale. An additional 2% is added to all Welded Products orders when paid by credit card. An additional 3% is added to all other order over $5,000 when paid by credit card. A finance charge of 1.5% per month (annual percentage rate of 18%) will be charged on all past due amounts. In the event suit or other proceeding is brought by Seller for the recovery of the purchase price, or any unpaid portion thereof, or for any breach of any of these Terms, Buyer shall pay to Seller, in addition to any damages provided by law, all collection or enforcement costs incurred by Seller, including reasonable attorney fees, and Seller shall be entitled to have such costs and fees included as part of any judgment obtained by Seller.

4. Taxes. Prices set forth in Seller's price list, or quoted by Seller, do not include applicable federal, state or local taxes or other charges. Buyer shall pay all such taxes and other charges, together with any penalties and interest, and file any returns with respect thereto, upon receipt of any invoice from Seller. In lieu of payment of any such taxes, Buyer shall provide Seller with an acceptable tax exemption certificate. Buyer agrees to indemnify Seller, and hold Seller harmless, and upon request, defend Seller, against any and all assessments, demands, causes of action, suits, or claims of any nature, whatsoever, including costs and attorney fees, incurred by Seller in connection with the payment or nonpayment of any applicable taxes, for the filing or failure to file any returns, which are required of Buyer by law or pursuant to this paragraph 4.

5. Delivery and Shipment Dates. Any dates and schedules for delivery of Products stated in Seller's quotation or acknowledgement represent Seller's best estimate made at the time of such quotation or acknowledgement, and are not binding upon Seller. Seller reserves the right to make deliveries in installments and to separately invoice Buyer for each installment. Seller shall have no liability, whatsoever, to Buyer, Buyer's customers, or any third party for direct, liquidated, consequential, incidental or indirect damages, losses or expenses resulting from delays in shipment of any Products or installments of Products.

6. Freight. All shipments are F.O.B., Seller's factory in Illinois. If Buyer specified shipment by "Pre-paid Freight", freight charges plus 10% (15% for same-day shipments), but not less than $5.00 in any case, will be added to Buyer's invoice. If Buyer specified shipment by "Collect" or "Third Party", a $5.00 handling charge per order will be added to Buyer's invoice. Any domestic orders placed after 2pm Central Time (12 noon for International orders) requiring same-day assembly will be charged a $25 fee per item. Any domestic non-assembly orders placed after 3pm Central Time (2pm for International orders) requiring same-day shipping will be charged a $25 fee per order. International orders placed after 3pm Central Time cannot be guaranteed for same-day shipping.

7. Security. Seller shall have, and Buyer hereby grants to Seller, a security interest in all Products sold to Buyer until full and complete payment has been received by Seller from Buyer for the Products. Buyer agrees to do all acts necessary to permit Seller to perfect and maintain such security interest.

8. Returns. Seller will review Buyer’s request to return standard Products for credit or repair. Prior to returning any standard Product, Buyer must obtain Return Material Authorization from Seller. Except for valid warranty claims, no returns will be accepted after 90 days from the date of shipment. A minimum restocking charge will be charged on all non-warranty returns. All Resale items are subject to the Terms and Conditions as published by the original manufacturer. A copy of Seller’s Return Material and Repair Policy is available upon request.

9. Indemnification. Buyer shall indemnify and defend Seller, and hold Seller harmless, from and against any and all claims, demands, causes of action, loss, or damage, including reasonable attorney fees, arising from or relating to the improper use or installation of any Product or any acts or omissions of Buyer.

10. Limitation of Liability. IN NO EVENT SHALL SELLER HAVE ANY LIABILITY, WHATSOEVER, TO BUYER, BUYER'S CUSTOMERS, OR ANY THIRD PARTY FOR SPECIAL, LIQUIDATED, CONSEQUENTIAL, INCIDENTAL OR INDIRECT LOSS OR DAMAGE OF ANY KIND, ARISING OUT OF, OR ALLEGED TO ARISE OUT OF, ANY PRODUCTS OR SELLER'S SALE THEREOF. SELLER'S LIABILITY FOR WARRANTY CLAIMS IS SOLELY AS SET FORTH IN SELLER'S LIMITED PRODUCT WARRANTY AS PROVIDED IN PARAGRAPH 11 OF THESE TERMS.

11. Warranty. Seller warrants its Products in accordance with Seller's Limited Product Warranty, a copy of which Buyer acknowledges receipt with these Terms, and which is incorporated herein by reference. SELLER DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR USAGE OF TRADE. SELLER SHALL NOT BE LIABLE TO BUYER OR ANY OTHER PARTY UNDER THIS WARRANTY FOR DIRECT, SPECIAL, CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES OF ANY KIND.

12. Cancellation. No order for Products may be cancelled by Buyer without the prior written consent of Seller. In the event Seller consents to cancellation of any order placed by Buyer, Buyer agrees to reimburse Seller for any expenses incurred in developing, engineering, or manufacturing any Products to Buyer's specifications and for any Products shipped to Buyer prior to Seller's receipt of any notice of cancellation.

13. Choice of Law. All agreements between Seller and Buyer with respect to any Products, or the performance thereof, shall be construed in accordance with, and governed by, the laws of the State of Illinois.

14. Jurisdiction. Seller and Buyer hereby acknowledge and agree that this sale is entered into in DeKalb County, Illinois, and hereby further agree to submit themselves to the jurisdiction of the courts of DeKalb County, Illinois, with respect to any claim, controversy or dispute, whether in law or in equity, which arises from, or is alleged to arise from, or is in any way related to, this sale.

15. Waiver. Waiver by Seller of Buyer's breach of any of these Terms shall not be construed as a waiver of any other breach.

16. Severability. In the event any provision of these Terms shall be declared invalid or unenforceable by a court of competent jurisdiction, the remaining provisions of these Terms shall remain in full force and effect.